

United States Department of Agriculture  
Animal and Plant Health Inspection Service  
4700 River Road  
Riverdale, MD 20737

**Permit to Move Live Plant Pests, Noxious Weeds, and Soil**  
Continued Curation  
**Regulated by 7 CFR 330**

This permit was generated electronically via the ePermits system

<b>PERMITTEE NAME:</b>	Dr. Philip Roberts	<b>PERMIT NUMBER:</b>	P526P-18-02227
<b>ORGANIZATION:</b>	University of California, Riverside	<b>APPLICATION NUMBER:</b>	P526-180425-017
<b>ADDRESS:</b>	3401 Watkins Dr. Dept. of Nematology, Boyce 1463 Riverside, CA 92521	<b>FACILITY NUMBER:</b>	5
<b>MAILING ADDRESS:</b>	3401 Watkins Dr. Dept. of Nematology, Boyce 1463 Riverside, CA 92521	<b>HAND CARRY:</b>	No
<b>PHONE:</b>	951-827-7332	<b>DATE ISSUED:</b>	05/30/2018
<b>FAX:</b>	951-827-3719	<b>EXPIRES:</b>	<b>05/30/2021</b>
<b>DESTINATION:</b>	3401 Watkins Dr., Univ. of CA Riverside, Nematode Isolation and Quarantine Facility, Riverside, CA 92521		

Under the conditions specified, this permit authorizes the following:

<u>Regulated Article</u>	<u>Life Stage(s)</u>	<u>Intended Use</u>	<u>Originally Collected</u>	<u>Culture Designation</u>
Nacobus aberrans	Any	Culture Curation	Originally Collected from Outside North America	
Pratylenchus agilis	Any	Culture Curation	Originally Collected from Outside North America	DD
Pratylenchus brachyurus	Any	Culture Curation	Originally Collected from Outside North America	MM
Pratylenchus coffeae	Any	Culture Curation	Originally Collected from Outside North America	F, GG, O, P
Pratylenchus crenatus	Any	Culture Curation	Originally Collected from Outside North America	G
Pratylenchus jordanensis	Any	Culture Curation	Originally Collected from Outside North America	W
Pratylenchus loosi	Any	Culture Curation	Originally Collected from Outside North America	LL
Pratylenchus neglectus	Any	Culture Curation	Originally Collected from Outside North America	J, X
Pratylenchus penetrans	Any	Culture Curation	Originally Collected from Outside North America	CC, Q, R
Pratylenchus pinguicaudatus	Any	Culture Curation	Originally Collected from Outside North America	L

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*Carl P. Schulze*

Carl Schulze

DATE

05/30/2018

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Pratylenchus scribneri	Any	Culture Curation	Originally Collected from Outside North America	EE, T
Pratylenchus thornei	Any	Culture Curation	Originally Collected from Outside North America	FF, M, U
Pratylenchus vulnus	Any	Culture Curation	Originally Collected from Outside North America	AA, S
Pratylenchus zeae	Any	Culture Curation	Originally Collected from Outside North America	N, NN

### PERMIT CONDITIONS

USDA-APHIS issues this permit to Philip Roberts at the University of California in Riverside, California. This permit authorizes continued curation of the listed organisms received under prior permit for laboratory, growth chamber and greenhouse use in the APHIS approved facility #5.

- This permit is issued by the United States Department of Agriculture's Animal and Plant Health Inspection Service (APHIS). It conveys APHIS regulations and requirements for the material(s) listed on this permit. It does not reduce or eliminate your legal duty and responsibility to comply with all other applicable Federal and State regulatory requirements.
  - You must be an individual at least 18 years old, or legal entity such as partnership, corporation, association, or joint venture.
  - You are legally responsible for complying with all permit requirements and permit conditions.
  - If you violate any applicable laws associated with this permit, you may face substantial civil or criminal penalties. We may cancel all current permits and deny future permit applications.
  - Without prior notice and during reasonable hours, authorized Federal and State Regulators must be allowed to inspect the conditions associated with the regulated materials/organisms authorized under this permit.
- The permit holder must:
  - maintain a valid PPQ526 permit so long as the regulated materials/organisms are alive or viable,
  - not assign or transfer this permit to other persons without APHIS PPQ authorization,
  - maintain an official permanent work assignment, residence, or affiliation at the address on this permit,
  - notify the Pest Permit Staff as soon as possible of any change in the permit holder's work

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assignment, residence, or affiliation,


- notify the Pest Permit Staff of the receipt of unauthorized and/or misdirected shipments of regulated materials/organisms,
- adequately mitigate environmental impacts resulting from unauthorized release of regulated materials/organisms and notify the Pest Permit staff immediately if one occurs,
- notify the Pest Permit Staff if the facility is damaged/destroyed or if you wish to decommission the facility,
- destroy all regulated materials/organisms prior to departure from the organization unless other arrangements are confirmed by the Pest Permit Staff.

Notifications to the Pest Permit Staff must be made via 866-524-5421 or [pest.permits@aphis.usda.gov](mailto:pest.permits@aphis.usda.gov) within one business day of the event triggering a notification.

3. This permit does not authorize movement or use of plant pathogens listed in the Public Health Security and Bioterrorism Preparedness and Response Act of 2002. If any organism listed as a Select Agent is identified from materials associated with this research, the permit holder is required to notify APHIS, Agriculture Select Agent Services (AgSAS) immediately by phone at 301-851-3300 option 3, and within seven (7) days submit APHIS/CDC Form 4A (Report of Identification of a Select Agent or Toxin in a Clinical or Diagnostic Laboratory) to APHIS, AgSAS; 4700 River Rd, Unit 2, Riverdale, MD 20737 (see instructions at: [https://www.selectagents.gov/resources/APHIS-CDC\\_Form\\_4\\_Guidance\\_Document.pdf](https://www.selectagents.gov/resources/APHIS-CDC_Form_4_Guidance_Document.pdf)). Failure to comply with this requirement is a violation of the Agricultural Bioterrorism Protection Act of 2002. Plant pathogen select agents currently listed include: *Peronosclerospora philippinensis* (*Peronosclerospora sacchari*), *Conothyrium glycines* (formerly *Phoma glycinicola* and *Pyrenochaeta glycines*), *Ralstonia solanacearum*, *Rathayibacter toxicus*, *Sclerophthora rayssiae*, *Synchytrium endobioticum*, and *Xanthomonas oryzae*.
4. All persons working with the listed regulated materials/organisms must be informed of these permit conditions. Anyone working with these materials/organisms must agree to and sign/initial these conditions before beginning work. These signed conditions do not need to be submitted to USDA/APHIS but must be readily accessible and made available to Federal and State regulators upon request.

Note: these conditions may be copied and stored electronically for electronic signature and initialing provided that the permit number, authorized materials/organisms and life stages, release locations if applicable, and authorization statement all appear on the document with the permit

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number. Signing these conditions only indicates that the person working under this permit has read them; the permit holder is the sole responsible party under this permit.

5. No new shipments of the regulated articles are authorized under this permit.
6. All research activities, plant inoculations and subsequent disease development must occur within the APHIS approved Containment Facility identified above that has been inspected and found adequate for containment of the organisms received under this permit. Access to this facility must be restricted to authorized personnel.
7. All waste water, soil and debris from laboratory procedures must be collected and sufficiently treated by heat or chemical means to kill or destroy all nematode life stages prior to disposal as per the devitalization and waste treatment condition listed below.
8. Growth chambers/incubators and greenhouses that contained infected plants must be decontaminated at the end of each experiment.
9. Standard Operating Procedures (SOPs) must be filed with, and approved by, the APHIS PPQ Pest Permit Staff at: email: pest.permits@aphis.usda.gov; phone: 866-524-5421; fax: 301-734-8700; address: 4700 River Road, Unit 133, Riverdale, MD 20737. All contact information must be kept current and the SOPs must be dated. If requirements in the permit conditions are more restrictive than the SOPs, permit conditions take precedence. APHIS PPQ must approve any changes to the SOPs before implementation.

A list of all persons with access to the containment facility must be maintained and available upon request by Federal or State Regulatory Officials.

10. Modifications to the containment facility or any changes that affect the containment of the regulated materials/organisms must be approved by APHIS prior to making changes. Please contact the Pest Permit Staff (email: pest.permits@aphis.usda.gov; phone: 866-524-5421; address: 4700 River Rd., Unit 133, Riverdale, MD 20737; Fax: 301-734-8700).
11. Records must be kept of all organisms maintained under this permit. Minimally the record will consist of the name of the organism identified to the lowest taxon possible, the country, or US state/territory, where each isolate was collected, and the date the isolate was received. These records must be made available to Federal and State regulators upon request.
12. When not working with the regulated materials/organisms, you must store and/or maintain them within the APHIS approved containment facility identified above. All stored regulated materials/organisms must be kept in a locked area with access limited to authorized personnel.
13. Runoff water from inoculated plants must be collected (e.g. place plants in saucers or trays, or divert runoff to collection tanks) and treated as per the devitalization and waste treatment condition listed below..

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#### 14. DEVITALIZATION AND WASTE DISPOSAL

All regulated materials/organisms and all items coming in direct contact or exposed to the regulated materials/organisms must be sterilized/sanitized/decontaminated prior to removal from the authorized containment facility. This includes all items from shipping, culturing, care, and maintenance of these regulated materials/organisms. This requirement includes but is not necessarily limited to: packaging directly exposed to the regulated materials/organisms, substrates (culture media, soil, plant materials (food materials or host plants)), leftover/unused/unneeded live cultures, and dead specimens/cultures unless specified otherwise in the permit.

All waste materials must be treated by one of the follow methods prior to disposal:

Use any of the following, either alone or in combination: 1) autoclaved (see protocol below), 2) disposed of as medical /biohazard waste with bonded contracted company (organisms and/or contaminated waste must be stored in sealed containers prior to pick up by this company), 3) incinerated, 4) immersed in 5 percent sodium hypochlorite (household bleach from the bottle is 5 percent) for at least 20 minutes, or 5) immersed in 70 percent alcohol for at least 30 minutes. Treated waste will be double bagged prior to disposal.


Other sterilization methods are only allowed with prior written agreement from the USDA/APHIS PPQ Pest Permit Staff.

Any equipment, supplies, tools, secondary shipping containers, packing materials (e.g. ice packs), etc. must be sterilized/sanitized/decontaminated prior to reuse, disposal, or removal from containment.

If using an autoclave the following protocol must be used:

- a. Waste must be autoclaved at 121 Celsius (250 Fahrenheit) for a minimum of 30 minutes at 15 psi.
  - b. Autoclave tape or other indicators must be placed on each load prior to treatment. The autoclave tape or other indicator on each container must be checked to verify color change before disposal.
  - c. The autoclave must be calibrated according to the manufacturer's instructions annually and a written record must be maintained.
  - d. Every 3 months, you must use a commercially available biological indicator kit that uses bacterial spores of *Geobacillus stearothermophilus* that are rendered unviable at 121 Celsius (250 Fahrenheit). You must follow the manufacturer's instructions. If any growth is observed, you must have the autoclave serviced and retested.
15. Devitalization/destruction of organisms and infected material may be conducted off site by a facility holding a valid PPQ compliance agreement prior to disposal. Vendor may or may not be in the same state. All organisms, contaminants and/or packaging materials must be in sealed containers during transport to this waste management facility in order to prevent any unauthorized dissemination of the regulated articles.

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16. There is to be no further movement or distribution of the listed regulated materials/organisms within the United States and its territories unless the recipient holds, or is named as a responsible party on a valid PPQ526 permit for receipt of such materials/organisms.

**END OF PERMIT CONDITIONS**

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